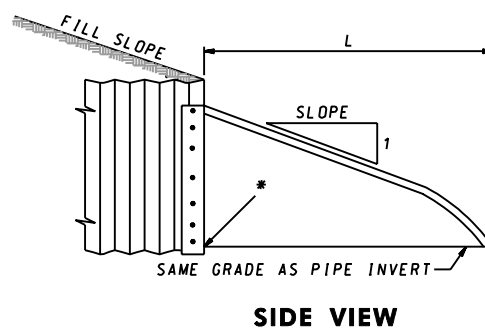
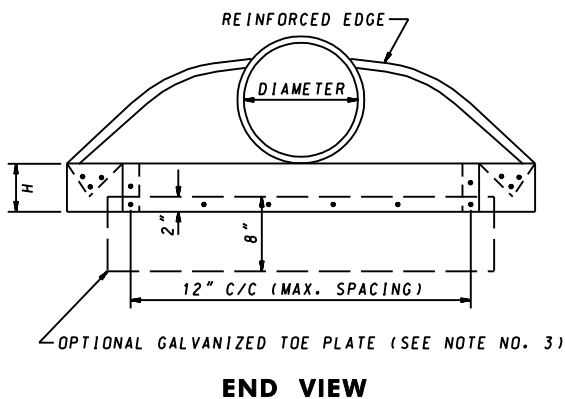


DIMENSIONS								
PIPE DIA.	GA.	A 1"±	B MAX.	H 1"±	L 1 1/2"±	W 2"±	APPROX. SLOPE	UNIT
12"	16	6"	6"	6"	21"	24"	2 1/2	1 PC.
15"	16	7"	8"	6"	26"	30"	2 1/2	1 PC.
18"	16	8"	10"	6"	31"	36"	2 1/2	1 PC.
21"	16	9"	12"	6"	36"	42"	2 1/2	1 PC.
24"	16	10"	13"	6"	41"	48"	2 1/2	1 PC.
30"	14	12"	16"	8"	51"	60"	2 1/2	1 PC.
36"	14	14"	19"	9"	60"	72"	2 1/2	2 PC.
42"	12	16"	22"	11"	69"	84"	2 1/2	2 PC.
48"	12	18"	27"	12"	78"	90"	2 1/4	2 OR 3 PC.
54"	12	18"	30"	12"	84"	102"	2	2 OR 3 PC.
60"	12 & 10	18"	33"	12"	87"	114"	1 3/4	3 PC.
66"	12 & 10	18"	36"	12"	87"	120"	1 1/2	3 PC.
72"	12 & 10	18"	39"	12"	87"	126"	1 1/3	3 PC.
78"	12 & 10	18"	42"	12"	87"	132"	1 1/4	3 PC.
84"	12 & 10	18"	45"	12"	87"	138"	1 1/6	3 PC.



* INVERT ELEVATION TO BE AT THE PIPE END OF THE STANDARD END SECTION. ELEVATIONS TO BE NOTED ON THE CONSTRUCTION PLANS.

NOTES

- ALL 3 PIECE UNITS TO HAVE 12 GA. SIDES AND 10 GA. CENTER PANELS (EXCEPT 48" AND 54" PIPES, ALL PANELS SHALL BE 12 GA.) WIDTH OF CENTER PANELS TO BE GREATER THAN 20% OF THE PIPE PERIPHERY. MULTIPLE PANEL UNITS TO HAVE LAP SEAMS WHICH ARE TO BE TIGHTLY JOINED BY 3/8" Ø GALVANIZED RIVETS OR BOLTS.
- FOR 60" THRU 84" SIZES, REINFORCED EDGES TO BE SUPPLEMENTED WITH GALVANIZED STIFFENER ANGLES. THE ANGLE WILL BE 2" x 2" x 1/4" FOR 60" THRU 72" DIAMETER AND 2 1/2" x 2 1/2" x 1/4" FOR 78" AND 84" DIAMETER. THE ANGLES TO BE ATTACHED BY 3/8" Ø GALVANIZED NUTS AND BOLTS.
- TOE PLATE SHALL BE USED WHEN SPECIFIED ON THE PLANS. COST OF TOE PLATE TO BE INCLUDED IN BID PRICE PER EACH OF METAL END SECTION.
- TYPE 3 CONNECTION INCLUDES ONE FOOT OF PIPE LENGTH FOR 42" THRU 84" DIAMETER AS A CONNECTOR SECTION. THE CONNECTOR SECTION WILL BE ATTACHED TO THE END SECTION BY GALVANIZED RIVETS OR BOLTS. SEE STANDARD MD 370.11.
- WHERE END SECTION IS TO BE APPLIED TO A STRUCTURAL PLATE PIPE, THE END SECTION SHALL BE ORDERED WITHOUT THE ONE FOOT OF PIPE LENGTH AS STIPULATED IN NOTE 4; INSTEAD, DRILL HOLES AND FIELD BOLT THE END SECTION DIRECTLY TO THE STRUCTURAL PLATE PIPE.

SPECIFICATION 303	CATEGORY CODE ITEMS										
APPROVED <i>Kirk G. McCall</i> DIRECTOR - OFFICE OF HIGHWAY DEVELOPMENT											
SHA State Highway Administration	<table> <tr> <td>APPROVAL • SHA REVISIONS</td><td>APPROVAL • FEDERAL HIGHWAY ADMINISTRATION</td></tr> <tr> <td>APPROVAL 8-28-86</td><td>APPROVAL 12-12-86</td></tr> <tr> <td>REVISED 10-1-01</td><td>REVISED</td></tr> <tr> <td>REVISED</td><td>REVISED</td></tr> <tr> <td>REVISED</td><td>REVISED</td></tr> </table>	APPROVAL • SHA REVISIONS	APPROVAL • FEDERAL HIGHWAY ADMINISTRATION	APPROVAL 8-28-86	APPROVAL 12-12-86	REVISED 10-1-01	REVISED	REVISED	REVISED	REVISED	REVISED
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Maryland Department of Transportation
STATE HIGHWAY ADMINISTRATION
 STANDARDS FOR HIGHWAYS AND INCIDENTAL STRUCTURES

STANDARD METAL END SECTION ROUND METAL PIPE

STANDARD NO. MD 370.01